

CLAIMS

- 1 1. A scanning device comprising:
2 a shell;
3 a driving module;
4 an image capturing module, driven by said
5 driving module for capturing an image of a document,
6 further transforming said image to digital signal;
7 and
8 a fixed masking module, fixedly mounted inside
9 the shell for obstructing a light path,
10 wherein said image capturing module is moved by
11 said driving module to a predetermined position
12 where said fixed marking module is mounted, for
13 obstructing said light path, thus black calibration
14 is conducted.
- 1 2. The scanning device of claim 1, wherein said
2 shell comprises a transparent window, positioned at
3 an end of said shell for placing said document.
- 1 3. The scanning device of claim 2, wherein said
2 transparent window is a glass plate.
- 1 4. The scanning device of claim 1, wherein said
2 driving module comprises:
3 an actuator, positioned at one side of said
4 driving module, for providing a driving force; and
5 a guiding rod, mounted inside the shell for
6 guiding said image capturing module.

1 5. The scanning device of claim 4, wherein said
2 actuator is a motor.

1 6. The scanning device of claim 1, wherein said
2 image capturing module comprises:
3 a light source for propagating light; and
4 an image sensing element for capturing said
5 image and transforming said image into digital
6 signals.

1 7. The scanning device of claim 6, wherein said
2 image sensing element is a charged-couple device
3 (CCD) .

1 8. The scanning device of claim 1, wherein said
2 image capturing module comprises:
3 a cover; and
4 plural reflecting plates, positioned inside
5 said shell, for altering said light path.

1 9. The scanning device of claim 1, wherein said
2 fixed masking module comprises a mask, mounted at a
3 predetermined position, parallel to the movement of
4 said image capturing module for obstructing said
5 light path.

1 10. The scanning device of claim 1, wherein said
2 image capturing module comprises an opening, formed
3 in said cover for allowing said mask passing through
4 in order to obstruct said light path.

1 11. The scanning device of claim 9, wherein said
2 mask is not transparent.

1 12. A method for obstructing a light path by a fixed
2 mask comprising the steps of:

3 driving an image capturing module to a
4 predetermined position where said fixed mask is
5 mounted, for obstructing said light path into an
6 image sensing element of said image capturing
7 module;

8 capturing said image by said image sensing
9 element; and

10 transforming said image to digital signals for
11 completing black calibration.

1 13. The method of claim 12, wherein said image is a
2 stand black image.

1 14. The method of claim 12, wherein said
2 predetermined position is a place for a driving
3 module to move said image capturing module to said
4 fixed mask which said light path is obstructed.